

PROJECT				COMPUTATION OF ELEVATIONS AND REFRACTIONS FROM RECIPROCAL OBSERVATIONS (By calculating machine) For use of this form, see FM 3-34.331; the proponent agency is TRADOC.		
LOCATION						
ORGANIZATION		DATE (YYYYMMDD)				
Station 1, occ.						
Station 2, obs.						
ζ_1						
ζ_2						
$\zeta_2 - \zeta_1$						
$\frac{1}{2}(\zeta_2 - \zeta_1)$						
$\tan \frac{1}{2}(\zeta_2 - \zeta_1)$						
s						
A						
B						
C						
$h_2 - h_1$						
h_1						
h_2						
$\frac{1}{s^2} = p$ of $(h_2 - h_1)$						
a and mean ϕ						
$\zeta_1 \quad \zeta_2 - 180^\circ$						
$\zeta_1 \quad \zeta_2 - 180^\circ$ in sec.						
$p \frac{\sin 1''}{2}$						
s						
$(0.5 - m)$						
p of $(0.5 - m)^*$						
$h_2 - h_1 = s \tan \frac{1}{2}(\zeta_2 - \zeta_1) A B C$ $(0.5 - m) = (\zeta_1 + \zeta_2 - 180^\circ \text{ in sec.}) p \frac{\sin 1''}{2}$ <p>* Since $(0.5 - m)$ varies as s^2, the weight $p = \frac{s}{N}$, where N is constant for a set and is preferably a power of 10.</p>						
COMPUTED BY		DATE (YYYYMMDD)		CHECKED BY		DATE (YYYYMMDD)